DISCUSSION

Applicant disagrees with the requirement for restriction, and hereby requests reconsideration and withdrawal or modification of the requirement based on the argument below. Notwithstanding, Applicant elects the "invention" covered by claims 1-5 and new claims 11-20 dependent on claim 1 in the event the requirement becomes final (and consents to the withdrawal of claim 6-10).

The claims designated by Inventions I and II are simply correlating method and system claims as demonstrated by the chart below which shows the relationship between each method step and the related feature within the system claim.

Claim 1	Claim 6
segmenting the output pattern of the array using tessellation;	a tessellation unit for segmenting the output pattern
processing the segmented output pattern to amplify signals associated with the biological sample, having an intensity lower than the intensity of signals associated with noise, to an intensity greater than the intensity of the signals associated with noise to generate a modified output pattern	a signal processing unit to amplify signals associated with the biological sample within the segmented output pattern, having an intensity lower than the intensity of signals associated with noise, to an intensity greater than the intensity of the signals associated with noise to generate a modified output pattern
determining which signals within the enhanced segmented output pattern are associated with specific constituents within the biological sample	a first determination unit to determine which signals within the modified output pattern correlate with specific constituents within the biological sample
determining specific constituents within the biological sample based on the signals within the enhanced segmented output pattern associated with specific constituents within the biological sample	a second determination unit to determine specific constituents within the biological sample based on the signals within the modified output pattern correlating to specific constituents within the biological sample

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For example, the first-step of claim 1 is segmenting the output pattern of the array using tessellation. The first feature of claim 5 is a tessellation unit for segmenting the output pattern. Similarly, each of the remaining steps of claim 1 correspond to features of claim 5. Accordingly, the "inventions" of Group I and II are capable of use together, have similar modes of operations, functions, and effects, are therefore related.

Based on the above, Applicant believes that the claims as amended put the application in condition for allowance. The Examiner is kindly requested to contact the undersigned if there are any matters which may be addressed telephonically or via e-mail.

Respectfully submitted,

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I certify that the foregoing was sent by facsimile on the date above to 703.872.9306.

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